

Set	Items	Description
S1	14004137	S INSERT? OR IMPLANT? OR INFIX? OR IMBED? OR EMBED? OR INJECT? OR PIERC??? OR PERFORAT? OR PENETRAT??? OR STYLET OR LANC??? OR PUNCTUR??? OR INFUSION OR DELIVER???
S2	744668	S NEEDLE? OR CANNULA? OR TROCAR? OR SYRINGE? OR HYPODERM?
S3	7675725	S INTRADERM? OR INTRAVENOUS? OR INTRAMUSCULAR? OR INTRACUTANEOUS? OR PERCUTANEOUS OR TRANSURETHRAL OR TRANSRECTAL OR TRANSPERINEAL OR INTRALUM?NAL OR INTRA()LUM?NAL OR (LUMEN? ? OR LUMIN? ? OR VESSEL? ?)()WALL? ? OR TISSUE? ? OR TUNICA OR LAMINA
S4	800283	S S1:S2(10N)S3
S5	260344	S BULK??? OR SWELL??? OR ENLARG? OR INCREAS? OR EXPAND??? OR EXPANS? OR LARGER INFLAT??? OR AMPLIF? OR AUGMENT? OR DISTEND OR WIDEN?
S6	73737	S S1(10N)S5
S7	48557	S S4(50N)S6
S8	76199	S APPLICAT?R? ? OR DISPENS?R? ? OR DISPERS? OR DISTRIBUT?
S9	3262	S S5(10N)S8
S10	392	S S7(50N)S9
S11	42	S S10 FROM 347, 350
S12	48874	S IC=A61?
S13	41	S S11 AND S12
S14	350	S S10 NOT S11
S15	105	S S14/2004:2007
S16	245	S S14 NOT S15
S17	134	RD S16 (unique items)

; show files

[File 5] Biosis Previews(R) 1926-2008/Jan W3
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[File 155] MEDLINE(R) 1950-2008/Jan 24
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[File 6] NTIS 1964-2008/Jan W4
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[File 35] Dissertation Abs Online 1861-2007/Oct
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[File 583] Gale Group Globalbase(TM) 1986-2002/Dec 13
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**File 583: This file is no longer updating as of 12-13-2002.*

[File 144] Pascal 1973-2008/Jan W3
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[File 34] SciSearch(R) Cited Ref Sci 1990-2008/Jan W3
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[File 99] Wilson Appl. Sci & Tech Abs 1983-2007/Nov
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[File 65] Inside Conferences 1993-2008/Jan 28
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[File 95] TEME-Technology & Management 1989-2008/Jan W3
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[File 23] CSA Technology Research Database 1963-2008/Jan
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[File 36] MetalBase 1965-20080128
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[File 9] Business & Industry(R) Jul/1994-2008/Jan 28
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[File 16] Gale Group PROMT(R) 1990-2008/Jan 17
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**File 16: Because of updating irregularities, the banner and the update (UD=) may vary.*

[File 160] Gale Group PROMT(R) 1972-1989
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[File 347] JAPIO Dec 1976-2007/Sep(Updated 080116)
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[File 350] Derwent WPIX 1963-2008/UD=200806
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**File 350: English-language translations of Chinese Utility Model registrations are available starting with update 200769.*

13/5/1 (Item 1 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0015970321 *Drawing available*

WPI Acc no: 2006-501989/200651

Related WPI Acc No: 1999-580614; 2001-016344; 2002-352389; 2002-507752; 2002-547374; 2002-656874; 2003-605907; 2004-295296; 2004-304902; 2004-506139; 2004-717922; 2004-737583; 2004-756718; 2004-794524; 2004-794525; 2005-047334; 2005-072877; 2005-240855; 2005-675785; 2006-029267; 2006-088750; 2006-099024; 2006-125196; 2006-230728; 2006-471204; 2006-577284; 2006-593540; 2006-648970; 2006-755419; 2007-373166; 2007-396261; 2007-397154

XRAM Acc no: C2006-156847

XRPX Acc No: N2006-403883

Expandable medical device for delivering an agent to a patient, comprises a flexible connector column interconnecting an inflexible element column and a strut column comprising beneficial reservoirs

Patent Assignee: CONOR MEDSYSTEMS INC (CONO-N)

Inventor: EDELMAN E R; EIGLER N L; SHANLEY J F

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060149354	A1	20060706	US 2001314360	P	20010820	200651	B
			US 2001948987	A	20010907		
			US 2004849324	A	20040519		
			US 2006363123	A	20060227		

Priority Applications (no., kind, date): US 2001314360 P 20010820; US 2001948987 A 20010907; US 2004849324 A 20040519; US 2006363123 A 20060227

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060149354	A1	EN	14	11	Related to Provisional	US 2001314360
					Continuation of application	US 2001948987
					Continuation of application	US 2004849324
					Continuation of patent	US 6764507

Alerting Abstract US A1

NOVELTY - A device comprises a strut column having struts interconnected to form a cylindrical tissue supporting structure, an inflexible element column, and a flexible connector column interconnecting the strut column and inflexible element column, where the inflexible element column comprises beneficial agent bearing reservoirs.

USE - For an expandable medical device implanted within a bodily lumen of a living animal and human being, for delivering a beneficial agent such as vitamin, antilipid, antithrombins, antiplatelet, antimetotics and protein drugs to the intervention site.

ADVANTAGE - Large volume of beneficial agent can be efficiently delivered to a traumatized site in a vessel

lumen, while avoiding problems associated with surface coatings containing beneficial agents, without increasing the effective wall thickness of a stent and without adversely impacting the mechanical expansion properties of the stent.

DESCRIPTION OF DRAWINGS - The figure shows an enlarged side view of the tissue supporting device.

10 tissue supporting device

12 cylindrical tube

14 bridging elements

18 elongated strut

20 ductile hinges

Title Terms /Index Terms/Additional Words: EXPAND; MEDICAL; DEVICE; DELIVER; AGENT; PATIENT; COMPRISE; FLEXIBLE; CONNECT; COLUMN; INTERCONNECT; INFLEXIBLE; ELEMENT; STRUT; BENEFICIAL; RESERVOIR

Class Codes

International Patent Classification

IPC	Class	Level	Scope	Position	Status	Version	Date			
A61F-0002/90	A		I	F	B	20060101				
A61F-0002/82	C		I	F	B	20060101				

US Classification, Issued: 623001160, 623001420

File Segment: CPI; EngPI

DWPI Class: B07; D22; P32

Manual Codes (CPI/A-N): B11-C04A; B12-M10A2; D09-C04

13/5/5 (Item 5 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0015469951 *Drawing available*

WPI Acc no: 2005-807685/200582

Related WPI Acc No: 2004-032085

XRAM Acc no: C2005-248276

XRPX Acc No: N2005-669528

Treatment of sphincter in esophagus of patient to alleviate gastroesophageal reflux disease, by injecting controlled volume of liquid polymer into tissue site to create controlled volume of in-situ implant in sphincter to bulk sphincter

Patent Assignee: MILBOCKER M T (MILB-I); PROMETHEAN SURGICAL DEVICES (PROM-N)

Inventor: MILBOCKER M T

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050247322	A1	20051110	US 2002118785	A	20020409	200582	B
			US 200586620	A	20050322		
US 7309310	B2	20071218	US 2002118785	A	20020409	200802	E
			US 200586620	A	20050322		

Priority Applications (no., kind, date): US 2002118785 A 20020409; US 200586620 A 20050322

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050247322	A1	EN	23	18	C-I-P of application	US 2002118785
US 7309310	B2	EN			C-I-P of application	US 2002118785
					C-I-P of patent	US 7047980

Alerting Abstract US A1

NOVELTY - Treatment of sphincter in esophagus of patient to alleviate gastroesophageal reflux disease, comprises advancing tissue piercing needle distal end a distance in interior of sphincter to tissue site; and injecting controlled volume of liquid polymer into tissue site to create controlled volume of in-situ implant in sphincter to bulk the sphincter, thus reducing at least one of frequency and quantity of sphincter reflux.

DESCRIPTION - Treatment of sphincter in an esophagus of a patient to alleviate gastroesophageal reflux disease, comprises:

1. providing a catheter and an injector coupled to the catheter, the catheter having a tissue piercing needle distal end;
2. providing a liquid polymer which will polymerize in site at the site of injection to form a bulking implant, where the polymer comprises a polyisocyanate capped polyol;
3. introducing the catheter into the esophagus of the patient;
4. piercing an exterior surface of the sphincter of the esophagus of the patient with the tissue piercing needle distal end on the catheter;
5. advancing the tissue piercing needle distal end a distance in an interior of sphincter to a tissue site; and
6. injecting a controlled volume of the liquid polymer into the tissue site to create a controlled volume of in-situ implant in the sphincter to bulk the sphincter, thus reducing at least one of the frequency and the quantity of sphincter reflux.

An INDEPENDENT CLAIM is also included for a kit for the treatment of gastroesophageal reflux disease, comprising:

1. a delivery device comprising a needle and optionally a mechanism for visualization of an esophageal sphincter, the device constructed and arranged so that a polymer can be delivered into one or more selected sites in the sphincter in a controlled volume;

2. in the same box or in a separate box, a vial of synthetic polymer for delivery to the sphincter, where the polymer is capable of polymerizing, after injection into the sites in the sphincter, to form a bulking implant; and
3. written material in the kit explaining how to use the polymer and the delivery device to treat gastroesophageal reflux disease.

USE - For treating sphincter in an esophagus of a patient to alleviate gastroesophageal reflux disease (claimed).

ADVANTAGE - The volume of polymer reduces the frequency of sphincter relaxation, the frequency of reflux of stomach contents into an esophagus, the frequency of a symptom of reflux of stomach contents into an esophagus, and/or the incidence of a sequela of reflux of stomach contents into an esophagus. The tissue bonding prevents erosion of the tissue around the implant and thus prevents loss of the implant. The method minimizes injury to a mucosal layer of the sphincter. The method controllably increases the bulk of a sphincter without creating a permanent impairment of the sphincter's ability to achieve a physiological normal state of closure. The method creates a tightening of a sphincter without permanently damaging anatomical structures near the sphincter.

DESCRIPTION OF DRAWINGS - The figure is a flow chart illustrating a sphincter treatment method.

Title Terms /Index Terms/Additional Words: TREAT; SPHINCTER; OESOPHAGUS; PATIENT; ALLEVIATE; REFLUX; DISEASE; INJECTION; CONTROL; VOLUME; LIQUID; POLYMER; TISSUE; SITE; SITU; IMPLANT; BULK

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61F-0002/02	A	I		R	20060101			
A61B-0019/00	A	I	L	B	20060101			
A61F-0002/02	A	I	F	B	20060101			
A61F-0002/02	C	I		R	20060101			
A61B-0019/00	C	I		B	20060101			
A61F-0002/02	C	I		B	20060101			

US Classification, Issued: 623009000, 600030000, 604019000, 128898000, 600030000, 128898000

File Segment: CPI; EngPI

DWPI Class: A25; A96; D22; P31

Manual Codes (CPI/A-N): A05-G03; A12-V03D; D09-C

13/5/7 (Item 7 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0014402971 *Drawing available*

WPI Acc no: 2004-592629/200457

Related WPI Acc No: 1997-079190; 1997-203564; 1997-352751; 1999-179876; 2000-499060; 2002-105556

XRAM Acc no: C2004-215433

XRPX Acc No: N2004-468723

Releasing of fluid medicaments at site in vasculature of patient to prevent restenosis in lumen of vessel, comprises providing expanding member defining axis, and advancing expanding member through vasculature to site

Patent Assignee: BARATH P (BARA-I); REISS R E (REIS-I); VIGIL D M (VIGI-I)

Inventor: BARATH P; REISS R E; VIGIL D M

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040153048	A1	20040805	US 1999232392	A	19990115	200457	B
			US 2001778594	A	20010207		
			US 2004761387	A	20040122		

Priority Applications (no., kind, date): US 1999232392 A 19990115; US 2001778594 A 20010207; US 2004761387 A 20040122

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040153048	A1	EN	25	16	C-I-P of application	US 1999232392
					Continuation of application	US 2001778594
					C-I-P of patent	US 6210392
					Continuation of patent	US 6695830

Alerting Abstract US A1

NOVELTY - Fluid medicaments at a site in the vasculature of a patient are released to prevent restenosis in the lumen (27) of a vessel by providing an expanding member defining an axis (17), advancing expanding member through the vasculature to the site, moving the expanding member between first and second configurations, and releasing the fluid medicament through the dispensers (20) into the vessel wall.

DESCRIPTION - Releasing of fluid medicaments at a site in the vasculature of a patient to prevent restenosis in the lumen of a vessel comprises providing an expanding member defining an axis; advancing expanding member through the vasculature to the site; moving the expanding member between first configuration where the dispensers are positioned adjacent the axis of the expanding member, and second configuration where the dispensers are extended from the axis for the contact with the vessel wall at the site in the vasculature; and releasing the fluid medicament through the dispensers into the vessel wall for a circumferential dispersion of the fluid medicament through the wall around the lumen of the vessel. The expanding member has dispensers mounted on the expanding member for movement. The dispensers are positioned in a plane-oriented perpendicular to the axis.

USE - For releasing fluid medicaments at a site in the vasculature of a patient to prevent restenosis in the lumen of a vessel.

ADVANTAGE - The invention provides an increased medicinal dispersion rate due to the localized inflammation created by the procedure. It safely delivers dangerous medicaments into a vessel wall while minimizing the amount

of medicament that is washed away into the blood stream. It is easy to perform, safe, relatively simple, and inexpensive to perform.

DESCRIPTION OF DRAWINGS - The figure is a perspective view of a device for releasing fluid medicaments at a site in the vasculature of a patient.

14 Multi-lumen catheter

17 Axis

18 Tubular sleeve

19 Single plane

20 Dispensers

22, 28 Distal ends

24 Proximal end

27 Lumen

38 Guidewire

Title Terms /Index Terms/Additional Words: RELEASE; FLUID; MEDICAMENT; SITE; PATIENT; PREVENT; LUMEN; VESSEL; COMPRISE; EXPAND; MEMBER; DEFINE; AXIS; ADVANCE; THROUGH

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61M-0025/10	A	I		R	20060101			
A61M-0029/02	A	I		R	20060101			
A61M-0025/10	C	I		R	20060101			
A61M-0029/02	C	I		R	20060101			

US Classification, Issued: 604509000, 604103010, 600003000

File Segment: CPI; EngPI; EPI

DWPI Class: B07; K08; S05; P34

Manual Codes (EPI/S-X): S05-A03X; S05-J01

Manual Codes (CPI/A-N): B04-B04D; B04-E01; B05-B02A3; B11-C04; K09-B

13/5/9 (Item 9 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0014120423 *Drawing available*

WPI Acc no: 2004-304902/200428

Related WPI Acc No: 1999-580614; 2001-016344; 2002-352389; 2002-507752; 2002-547374; 2002-656874; 2003-605907; 2004-295296; 2004-506139; 2004-717922; 2004-737583; 2004-756718; 2004-794524; 2004-794525; 2005-

047334; 2005-072877; 2005-240855; 2005-675785; 2006-029267; 2006-088750; 2006-099024; 2006-125196; 2006-230728; 2006-471204; 2006-501989; 2006-577284; 2006-593540; 2006-648970; 2006-755419; 2007-373166; 2007-396261; 2007-397154

XRAM Acc no: C2004-115915

XRPX Acc No: N2004-242823

Expandable medical device for treating restenosis, comprises cylindrical device provided with openings containing primary therapeutic agent on ends and openings containing secondary therapeutic agent on central portion

Patent Assignee: CONOR MEDSYSTEMS INC (CONO-N)

Inventor: LITVACK F; NGUYEN T M; PARKER T L; SHANLEY J F

Patent Family (7 patents, 105 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004026174	A2	20040401	WO 2003US29992	A	20030922	200428	B
US 20040127977	A1	20040701	US 2002412489	P	20020920	200444	E
			US 2003668430	A	20030922		
AU 2003276920	A1	20040408	AU 2003276920	A	20030922	200462	E
EP 1539043	A2	20050615	EP 2003797926	A	20030922	200539	E
			WO 2003US29992	A	20030922		
US 20050234544	A1	20051020	US 2002412489	P	20020920	200569	E

			US 2003668430	A	20030922		
			US 2005165472	A	20050622		
JP 2006500121	W	20060105	WO 2003US29992	A	20030922	200603	E
			JP 2004538450	A	20030922		
US 20060122697	A1	20060608	US 2002412489	P	20020920	200639	E
			US 2003668430	A	20030922		
			US 200579967	A	20050314		

Priority Applications (no., kind, date): US 2002412489 P 20020920; US 2003668430 A 20030922; US 200579967 A 20050314; US 2005165472 A 20050622

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
WO 2004026174	A2	EN	27	6			
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW						
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW						
US 20040127977	A1	EN			Related to Provisional	US 2002412489	
AU 2003276920	A1	EN			Based on OPI patent	WO 2004026174	

EP 1539043	A2	EN			PCT Application	WO 2003US29992
					Based on OPI patent	WO 2004026174
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
US 20050234544	A1	EN			Related to Provisional	US 2002412489
					Continuation of application	US 2003668430
JP 2006500121	W	JA	21		PCT Application	WO 2003US29992
					Based on OPI patent	WO 2004026174
US 20060122697	A1	EN			Related to Provisional	US 2002412489
					C-I-P of application	US 2003668430

Alerting Abstract WO A2

NOVELTY - The therapeutic agent delivery device has expandable cylindrical device, openings-I (630a) positioned on the proximal and distal ends of cylindrical device and openings-II (630b) positioned on the central portion of cylindrical device between the proximal and distal ends. The openings-I and -II contain primary and secondary agents, respectively. The primary therapeutic agent is different from secondary therapeutic agent.

DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

4. tissue supporting device;
5. treatment of restenosis; and
6. loading of stent with the therapeutic agent.

USE - As stents for treating restenosis (claimed).

ADVANTAGE - The device has favorable stent expansion force, stent refill, structural stability, stent securement on delivery catheters and radio-opacity. The device has improved mechanical and structural properties. The device delivers large volume of therapeutic agent to the traumatized site in a vessel lumen without increasing the effective wall thickness of stent and without adversely impacting mechanical expansion of the stent. The tissue supporting device improves spacial distribution of delivered therapeutic agent in lumen tissue by allowing variation in doses or concentration in the device.

DESCRIPTION OF DRAWINGS - The figure shows the enlarged side view of the portion of expandable medical device with bifurcation opening.

600 bifurcation device

610 hole

630a, 630b openings-I and -II

Title Terms /Index Terms/Additional Words: EXPAND; MEDICAL; DEVICE; TREAT; COMPRISE; CYLINDER; OPEN; CONTAIN; PRIMARY; THERAPEUTIC; AGENT; END; SECONDARY; CENTRAL; PORTION

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61F-0002/00	A	N		R	20060101			
A61F-0002/06	A	I		R	20060101			
A61F-0002/06	A	I	L	B	20060101			
A61F-0002/06	A	I	F	B	20060101			
A61F-0002/84	A	I	F	B	20060101			
A61L-0031/00	A	I	L	B	20060101			
A61L-0031/14	A	I		R	20060101			
A61L-0031/16	A	I		R	20060101			
A61F-0002/00	C	N		R	20060101			
A61F-0002/06	C	I		R	20060101			
A61F-0002/06	C	I	L	B	20060101			
A61F-0002/82	C	I	F	B	20060101			
A61L-0031/14	C	I		R	20060101			

US Classification, Issued: 623001420, 623001420, 623001420

File Segment: CPI; EngPI

DWPI Class: B02; B07; D22; P32; P34

Manual Codes (CPI/A-N): B06-A03; B06-E05; B11-C04; B14-F01G; D09-C01

13/5/10 (Item 10 from file: 350)

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Derwent WPIX

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0013952313 *Drawing available*

WPI Acc no: 2004-132855/200413

XRAM Acc no: C2004-053061

XRFX Acc No: N2004-106078

Surgical implant material for replacing or augmenting tissue in body, has composite material made of interconnected omni-directional porous matrix structure of synthetic resin and bioactive glass particles distributed throughout matrix

Patent Assignee: POREX SURGICAL INC (PORE-N); SWORDS G (SWOR-I)

Inventor: SWORDS G

Patent Family (10 patents, 104 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2004009000	A1	20040129	WO 2003US22818	A	20030723	200413	B
US 20040019389	A1	20040129	US 2002397609	P	20020723	200416	E
			US 2002334151	A	20021231		
AU 2003254080	A1	20040209	AU 2003254080	A	20030723	200450	E

EP 1542625	A1	20050622	EP 2003765874	A	20030723	200541	E
			WO 2003US22818	A	20030723		
BR 200312879	A	20050628	BR 200312879	A	20030723	200545	E
			WO 2003US22818	A	20030723		
CN 1684645	A	20051019	CN 2003822568	A	20030723	200612	E
MX 2005000917	A1	20051001	WO 2003US22818	A	20030723	200620	E

			MX 2005917	A	20050121		
ZA 200501558	A	20051130	ZA 20051558	A	20050222	200628	E
US 7066962	B2	20060627	US 2002397609	P	20020723	200643	E
			US 2002334151	A	20021231		
KR 2006003852	A	20060111	WO 2003US22818	A	20030723	200659	E
			KR 2005701146	A	20050121		

Priority Applications (no., kind, date): US 2002397609 P 20020723; US 2002334151 A 20021231

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2004009000	A1	EN	19	8		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW					
Regional Designated States,Original	AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20040019389	A1	EN			Related to Provisional	US 2002397609
AU 2003254080	A1	EN			Based on OPI patent	WO 2004009000
EP 1542625	A1	EN			PCT Application	WO 2003US22818
					Based on OPI patent	WO 2004009000
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR					
BR 200312879	A	PT			PCT Application	WO 2003US22818
					Based on OPI patent	WO 2004009000
MX 2005000917	A1	ES			PCT Application	WO 2003US22818
					Based on OPI patent	WO 2004009000
ZA 200501558	A	EN	27			
US 7066962	B2	EN			Related to Provisional	US 2002397609
KR 2006003852	A	KO			PCT Application	WO 2003US22818
					Based on OPI patent	WO 2004009000

Alerting Abstract WO A1

NOVELTY - A surgical implant material (10) comprises a composite material made of an interconnected omni-directional porous (14) matrix structure of synthetic resin and bioactive glass particles (15) distributed throughout the matrix.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method for making a surgical implant comprising combining bioglass particles with a synthetic resin fines and mixing the bioglass and resins fines to form an admixture; introducing the admixture into a mold; applying heat to the mold, where the resins fines are sintered together to form a porous implant having bioglass interspersed throughout.

USE - The implant material is used for repairing or augmenting tissue by inserting a porous material of a synthetic resin and bioactive glass matrix into a patient's body where the matrix has a pore size that permits vascularization and tissue ingrowth, provide structural support and the bioglass promotes the tissue ingrowth (claimed).

ADVANTAGE - The invented surgical implant material exhibits good structural properties and improved fibrovascular integration properties. It has also improved bone or fibrovascular ingrowth properties.

DESCRIPTION OF DRAWINGS - The figure is a schematic sectional view of the implant.

10 Implant material

12 Polyethylene

14 Porous

15 Glass particles

Title Terms /Index Terms/Additional Words: SURGICAL; IMPLANT; MATERIAL; REPLACE; AUGMENT; TISSUE; BODY; COMPOSITE; MADE; INTERCONNECT; OMNI; DIRECTION; POROUS; MATRIX; STRUCTURE; SYNTHETIC; RESIN; BIOACTIVE; GLASS; PARTICLE; DISTRIBUTE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61B-0019/00	A	I	F	B	20060101			
A61F-0002/00	A	I		R	20060101			
A61F-0002/02	A	I	F	B	20060101			
A61F-0002/14	A	N		R	20060101			
A61F-0002/18	A	N		R	20060101			
A61F-0002/28	A	I		R	20060101			
A61F-0002/30	A	N		R	20060101			
A61F-0002/44	A	I	F	B	20060101			
A61L-0027/40	A	I	F	B	20060101			
A61L-0027/44	A	I	F	B	20000101			
A61L-0027/44	A	I		R	20060101			
A61L-0027/56	A	I		R	20060101			
A61B	S	I		R	20060101			
A61F	S	I		R	20060101			
A61F-0002/00	C	I		R	20060101			
A61F-0002/14	C	N		R	20060101			
A61F-0002/18	C	N		R	20060101			
A61F-0002/28	C	I		R	20060101			
A61F-0002/30	C	N		R	20060101			

A61L-0027/00	C	I	F	B	20060101		
A61L-0027/00	C	I		R	20060101		
B29C	S	I		R	20060101		

US Classification, Issued: 623023720, 128898000, 623023760, 623023510, 623017180

File Segment: CPI; EngPI

DWPI Class: A96; D22; P31; P32; P34

Manual Codes (CPI/A-N): A11-B14; A12-V02; D09-C01

13/5/16 (Item 16 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0012658014 *Drawing available*

WPI Acc no: 2002-507752/200254

Related WPI Acc No: 1999-580614; 2001-016344; 2002-352389; 2002-547374; 2002-656874; 2003-605907; 2004-304902; 2004-506139; 2004-717922; 2004-737583; 2004-756718; 2004-794524; 2004-794525; 2005-047334; 2005-072877; 2005-240855; 2005-675785; 2006-029267; 2006-088750; 2006-099024; 2006-125196; 2006-230728; 2006-471204; 2006-501989; 2006-577284; 2006-648970; 2006-755419; 2007-373166; 2007-396261; 2007-397154

XRPX Acc No: N2002-401859

Expandable non removable medical device for implantation into bodily lumen to support organ, has improved spatial distribution of struts for delivery of beneficial agent to intervention site

Patent Assignee: CONOR MEDSYSTEMS INC (CONO-N); EDELMAN E R (EDEL-I); EIGLER N L (EIGL-I); SHANLEY J F (SHAN-I)

Inventor: EDELMAN E R; EIGLER N L; SHANLEY J F

Patent Family (2 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020068969	A1	20020606	US 2000688092	A	20001016	200254	B
			US 2001266805	P	20010205		
			US 2001314360	P	20010820		
			US 2001948987	A	20010907		
US 6764507	B2	20040720	US 2001948987	A	20010907	200448	E

Priority Applications (no., kind, date): US 2000688092 A 20001016; US 2001266805 P 20010205; US 2001314360 P 20010820; US 2001948987 A 20010907

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
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US 20020068969	A1	EN	15	11	C-I-P of application	US 2000688092
					Related to Provisional	US 2001266805
					Related to Provisional	US 2001314360

Alerting Abstract US A1

NOVELTY - The device comprises a number of long struts (18), joined together by ductile hinges to form a cylindrical device which is expandable from a cylinder having one diameter to a cylinder having a second diameter. The strut arrangement expands to a parallelogram shape for improved beneficial agent distribution to the surrounding tissue. A beneficial agent may be loaded into openings within the struts or coated onto the struts for delivery to the tissue.

DESCRIPTION - Pivots or hinges (20) joint the struts together, only one pivot interconnecting each adjacent strut, and the pivots are each located offset from a line bisecting the V-shapes formed by the struts when the cylinder is in the second diameter.

USE - As an implantable medical device.

ADVANTAGE - The struts and ductile hinges are arranged to improve the spatial distribution of the struts which is particularly important when delivering beneficial agents with the struts.

DESCRIPTION OF DRAWINGS - The drawing shows and enlarged side view of a portion of the device.

18 Long struts

20 Hinges

Title Terms /Index Terms/Additional Words: EXPAND; NON; REMOVE; MEDICAL; DEVICE; IMPLANT; BODY; LUMEN; SUPPORT; ORGAN; IMPROVE; SPACE; DISTRIBUTE; STRUT; DELIVER; BENEFICIAL; AGENT; INTERVENING; SITE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61F-0002/00	A	N		R	20060101			
A61F-0002/02	A	N		R	20060101			
A61F-0002/06	A	I		R	20060101			
A61F-0002/00	C	N		R	20060101			
A61F-0002/02	C	N		R	20060101			
A61F-0002/06	C	I		R	20060101			

US Classification, Issued: 623001160, 623001420, 623001160, 623001150

File Segment: EngPI; ;

DWPI Class: P32

13/5/18 (Item 18 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0012394909 *Drawing available*

WPI Acc no: 2002-338582/200237

Related WPI Acc No: 2006-454214

XRPX Acc No: N2002-266189

Expandable implant device for filtering blood through the ostium of an atrial appendage, has structure inside membrane tube which, when expanded, causes close end of tube to cover ostium of appendage

Patent Assignee: ATRITECH INC (ATRI-N); BORILLO T E (BORI-I); PETERSON D (PETE-I); SUTTON G S (SUTT-I); WELCH J (WELC-I)

Inventor: BORILLO T E; PETERSON D; SUTTON G S; WELCH J

Patent Family (6 patents, 96 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20020022860	A1	20020221	US 2000226461	P	20000818	200237	B
			US 2000234112	P	20000921		
			US 2000234113	P	20000921		
			US 2001932512	A	20010817		
WO 2002015793	A2	20020228	WO 2001US25920	A	20010817	200237	E
AU 200185078	A	20020304	AU 200185078	A	20010817	200247	E
EP 1309289	A2	20030514	EP 2001964196	A	20010817	200333	E
			WO 2001US25920	A	20010817		
CN 1447669	A	20031008	CN 2001814305	A	20010817	200403	E
JP 2004506469	W	20040304	WO 2001US25920	A	20010817	200417	E
			JP 2002520708	A	20010817		

Priority Applications (no., kind, date): US 2000226461 P 20000818; US 2000234112 P 20000921; US 2000234113 P 20000921; US 2001932512 A 20010817

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20020022860	A1	EN	15	6	Related to Provisional	US 2000226461
					Related to Provisional	US 2000234112

					Related to Provisional	US 2000234113
WO 2002015793	A2	EN				
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
Regional Designated	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC					

States,Original	MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
AU 200185078	A	EN			Based on OPI patent	WO 2002015793
EP 1309289	A2	EN			PCT Application	WO 2001US25920
					Based on OPI patent	WO 2002015793
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
JP 2004506469	W	JA	64		PCT Application	WO 2001US25920
					Based on OPI patent	WO 2002015793

Alerting Abstract US A1

NOVELTY - An expandable structure (130) is disposed inside a membrane tube (120) having filters (125) at the closed ends (124). The implant device (101) is inserted in an atrial appendage (100) while the expandable structure is in a collapsible configuration. Once the structure expands, the closed end covers the ostium of the appendage with portions of tube pressed against interior walls of the appendage.

DESCRIPTION - An INDEPENDENT CLAIM is also included for a method in filtering blood flowing through the ostium of an atrial appendage.

USE - For filtering blood through the ostium of an atrial appendage.

ADVANTAGE - Provides implant devices which are small enough to be delivered by small-sized catheters to the atrial appendages. Provides implant devices whose size can be adjusted in situ to conform to the size of the atrial appendages. Prevents unwanted flow channels through which unfiltered blood may flow between the appendage and the atrium.

DESCRIPTION OF DRAWINGS - The figure shows the cross-sectional view of the implant device deployed in an atrial appendage.

100 Atrial appendage

101 Implant device

120 Membrane tube

124 Closed ends

125 Filters

130 Expandable structure

Title Terms /Index Terms/Additional Words: EXPAND; IMPLANT; DEVICE; FILTER; BLOOD; THROUGH; ATRIUM; APPENDAGE; STRUCTURE; MEMBRANE; TUBE; CAUSE; CLOSE; END; COVER

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date		
A61B-017/00			Main		"Version 7"		
A61B-0017/00	A	I	F	R	20060101		
A61B-0017/12	A	I		R	20060101		
A61F-0002/01	A	I		R	20060101		
A61B-0017/00	C	I	F	R	20060101		
A61B-0017/12	C	I		R	20060101		
A61F-0002/01	C	I		R	20060101		

US Classification, Issued: 606200000

File Segment: EngPI; ;
DWPI Class: P31; P32; P34

13/5/21 (Item 21 from file: 350)

Fulltext available through: [Order File History](#)

Derwent WPIX

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0011168003 *Drawing available*

WPI Acc no: 2002-105556/200214

Related WPI Acc No: 1997-079190; 1997-203564; 1997-352751; 1999-179876; 2000-499060; 2004-592629

XRAM Acc no: C2002-032355

XRFX Acc No: N2002-078514

Delivery of fluid medicaments at vascular sites, using an expanding member which has mounted dispensers that can penetrate the walls of a vessel to deliver medicament into the wall

Patent Assignee: BARATH P (BARA-I); INTERVATIONAL TECHNOLOGIES INC (INTE-N);
INTERVENTIONAL TECHNOLOGIES INC (INTE-N); INTERVENTIONAL TECHNOLOGY CORP (INTE-N);
REISS R E (REIS-I); SCIMED LIFE SYSTEMS INC (SCIM-N); VIGIL D M (VIGI-I); BOSTON SCI SCIMED
INC (BOST-N)

Inventor: BARATH P; REISS R E; VIGIL D M

Patent Family (10 patents, 33 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20010041859	A1	20011115	US 1999232392	A	19990115	200214	B
			US 2001778594	A	20010207		
EP 1230944	A2	20020814	EP 200275397	A	20020131	200261	E
AU 200191370	A	20020808	AU 200191370	A	20011115	200263	E
CA 2367560	A1	20020807	CA 2367560	A	20020114	200265	E
BR 200104886	A	20021001	BR 20014886	A	20011030	200268	E
JP 2002238909	A	20020827	JP 2001368140	A	20011203	200271	E
CN 1368388	A	20020911	CN 2001134228	A	20011026	200282	E
KR 2002065861	A	20020814	KR 20026987	A	20020207	200309	E
US 6695830	B2	20040224	US 2001778594	A	20010207	200415	E

AU 785005	B2	20060824	AU 200191370	A	20011115	200708	E
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Priority Applications (no., kind, date): US 1999232392 A 19990115; US 2001778594 A 20010207

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20010041859	A1	EN	21	16	C-I-P of application	US 1999232392
					C-I-P of patent	US 6210392
EP 1230944	A2	EN				
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
CA 2367560	A1	EN				
BR 200104886	A	PT				
JP 2002238909	A	JA	15			

Alerting Abstract US A1

NOVELTY - An expanding member, on which medicament dispensers are mounted, is used to treat conditions at vascular sites, e.g., restenosis. The member can be moved to a desired vascular site where it can be expanded to a desired size in order to deliver fluid medicaments to the desired site and/or to a particular layer of the vasculature at the site.

DESCRIPTION - INDEPENDENT CLAIMS are included for:

- a. releasing fluid medicaments at a site in a patient's vasculature, to prevent a restenosis in the lumen of a vessel, comprising:
 - A. providing an expanding member which defines an axis and which has a plurality of dispensers mounted on it for movement with the member, where the dispensers are positioned in a plane which is oriented perpendicular to the axis;
 - B. advancing the expanding member through the vasculature to the site;
 - C. moving the expanding member between
 - i. a first configuration in which the dispensers are positioned adjacent to the axis of the member; and
 - ii. a second configuration in which the dispensers are radially extended from the axis for contact with the vessel wall at the site in the vasculature; and
 - D. releasing the fluid medicament through the dispensers into the vessel wall to achieve a circumferential dispersion of the fluid medicament through the wall around the lumen of the vessel;
- b. releasing fluid medicaments into a vessel wall (which includes a plurality of internal layers of which one is a target layer) to treat a vessel disease at a site, comprising:
 - A. step (a) as described above;
 - B. step (b) as described above;
 - C. moving the expanding member between
 - i. a first configuration in which the dispensers are positioned adjacent to the axis of the member; and
 - ii. a second configuration in which the dispensers are radially extended from the axis for penetrating into the target layer; and

- D. releasing the fluid medicament through the dispensers into the target layer to achieve a circumferential dispersion of the medicament through the wall around the lumen of the vessel;
- c. releasing fluid medicaments into an arterial wall (which includes a media layer) to treat an arterial disease at a site, comprising:
- A. step (a) as described above;
 - B. step (b) as described above;
 - C. moving the expanding member between
 - i. a first configuration in which the dispensers are positioned adjacent to the axis of the member; and
 - ii. a second configuration in which the dispensers are radially extended from the axis for penetrating into the media layer; and
 - D. releasing the fluid medicament through the dispensers into the target layer of the arterial wall, to achieve a circumferential dispersion of the medicament through the media layer around the lumen of the artery.

ACTIVITY - Vasotropic.

MECHANISM OF ACTION - None given.

USE - The processes are especially useful for treatment of restenosis.

ADVANTAGE - The expanding member can selectively and accurately control the movement of the dispensers. It also allows precise control of both the depth of penetration of the dispensers into the vessel wall and the force used to penetrate the wall.

DESCRIPTION OF DRAWINGS - The figure shows a device for use in the above processes.

10 device

14 multi-lumen catheter

16 expanding member

18 tubular sleeve

20 dispensers

17 longitudinal axis

Title Terms /Index Terms/Additional Words: DELIVER; FLUID; MEDICAMENT; VASCULAR; SITE; EXPAND; MEMBER; MOUNT; DISPENSE; CAN; PENETRATE; WALL; VESSEL

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date		
A61M-037/00			Main		"Version 7"		
A61B-0017/00	A	I	F	R	20060101		
A61M-0025/00	A	I	L	R	20060101		
A61M-0025/10	A	I		R	20060101		
A61M-0029/02	A	I		R	20060101		
A61M-0029/02	A	I	F	B	20060101		
A61B-0017/00	C	I	F	R	20060101		

A61M-0025/00	C	I	L	R	20060101		
A61M-0025/10	C	I		R	20060101		
A61M-0029/02	C	I		R	20060101		
A61M-0029/02	C	I	F	B	20060101		

US Classification, Issued: 604288010, 604093010, 604104000, 604096010, 606194000, 604509000

File Segment: CPI; EngPI

DWPI Class: B07; K08; P31; P34

Manual Codes (CPI/A-N): B04-E01; B05-A03B; B05-A04; B05-B02A3; B11-C04; B14-F01; B14-F02; K09-B

13/5/23 (Item 23 from file: 350)

Fulltext available through: [Order File History](#)

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0010893853

WPI Acc no: 2001-514227/200156

XRAM Acc no: C2001-153574

XRPX Acc No: N2001-380992

An insertable or implantable device comprising a helical element within a mannitol/hydrogel cap for tissue penetration anchoring, providing increased control over dissolution or dispersion rates and physical strength of the cap

Patent Assignee: CARDIAC PACEMAKERS INC (CARD-N)

Inventor: HUM L L; LEY G R

Patent Family (3 patents, 23 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2001041866	A1	20010614	WO 2000US33695	A	20001213	200156	B
AU 200119597	A	20010618	AU 200119597	A	20001213	200161	E
US 6360129	B1	20020319	US 1999459782	A	19991213	200224	E

Priority Applications (no., kind, date): US 1999459782 A 19991213

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
WO 2001041866	A1	EN	34	2			
National Designated States,Original	AU CA JP						
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR						
AU 200119597	A	EN			Based on OPI patent	WO 2001041866	

Alerting Abstract WO A1

NOVELTY - A cap for insertable helical electrical connector leads comprising a blend of a water soluble or dispersible component and a hydrogel, is new.

DESCRIPTION - A device comprising:

- A. a helical element within an open central cap;
- B. a water-soluble or dispersible cap that at least partially covers this; and
- C. a mixture comprising:
 - i. a water-soluble or dispersible solid; and
 - ii. a hydrogel, inside (b).

USE - The device is useful as an electrical element for insertion or implantation into human tissue (e.g. as a cardiac pacemaker, defibrillator, catheter, catheter balloon or stent).

ADVANTAGE - The combination of the mannitol (or other water-soluble or dispersible material) and hydrogel increases the control over dissolution/dispersion rates and the physical strength and characteristics of the cap.

Title Terms /Index Terms/Additional Words: INSERT; IMPLANT; DEVICE; COMPRISE; HELICAL; ELEMENT; MANNITOL; HYDROGEL; CAP; TISSUE; PENETRATE; ANCHOR; INCREASE; CONTROL; DISSOLVE; DISPERSE; RATE; PHYSICAL; STRENGTH

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61N-0001/05	A	I		R	20060101			
A61N-0001/05	C	II		R	20060101			

US Classification, Issued: 607127000, 607120000, 600375000, 604057000

File Segment: CPI; EngPI; EPI

DWPI Class: A14; A28; A96; B07; D22; S05; P34

Manual Codes (EPI/S-X): S05-A01; S05-A02A

Manual Codes (CPI/A-N): A12-V02; A12-V03D; B11-C04; B11-C06A; D09-C01B; D09-C01C

13/5/31 (Item 31 from file: 350)

Fulltext available through: [Order File History](#)

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0009037121

WPI Acc no: 1998-594749/199850

XRAM Acc no: C1998-178478

XRPX Acc No: N1998-462744

Medical implant embedded in depth of bone to disperse external stress - coated with polymeric material of hydrophilicity and osteo-conductivity.

Patent Assignee: LEE Y (LEEY-I); LEE Y C (LEEY-I)

Inventor: LEE Y; LEE Y C

Patent Family (9 patents, 77 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1998048861	A1	19981105	WO 1997KR258	A	19971205	199850	B
AU 199852353	A	19981124	AU 199852353	A	19971205	199914	E
KR 1998078856	A	19981125	KR 199716481	A	19970426	200004	E
EP 984796	A1	20000315	EP 1997947218	A	19971205	200018	E
			WO 1997KR258	A	19971205		
KR 237738	B1	20000115	KR 199716481	A	19970426	200114	E
US 20030153985	A1	20030814	WO 1997KR258	A	19971205	200355	E
			US 1999403234	A	19991202		
			US 2002318465	A	20021212		
EP 984796	B1	20050727	EP 1997947218	A	19971205	200549	E
			WO 1997KR258	A	19971205		
DE 69733840	E	20050901	DE 69733840	A	19971205	200558	E
			EP 1997947218	A	19971205		
			WO 1997KR258	A	19971205		
DE 69733840	T2	20060406	DE 69733840	A	19971205	200625	E
			EP 1997947218	A	19971205		
			WO 1997KR258	A	19971205		

Priority Applications (no., kind, date): KR 199716481 A 19970426

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 1998048861	A1	EN	12	0	

National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW				
Regional Designated States,Original	AT BE CH DE DK EA ES FI FR GB GH GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW				
AU 199852353	A	EN			Based on OPI patent WO 1998048861
KR 1998078856	A	KO		0	

EP 984796	A1	EN			PCT Application	WO 1997KR258
					Based on OPI patent	WO 1998048861
Regional Designated States,Original	CH DE LI SE					
US 20030153985	A1	EN			C-I-P of application	WO 1997KR258
					C-I-P of application	US 1999403234
EP 984796	B1	EN			PCT Application	WO 1997KR258
					Based on OPI patent	WO 1998048861
Regional Designated States,Original	CH DE LI SE					
DE 69733840	E	DE			Application	EP 1997947218
					PCT Application	WO 1997KR258
					Based on OPI patent	EP 984796
					Based on OPI patent	WO 1998048861
DE 69733840	T2	DE			Application	EP 1997947218
					PCT Application	WO 1997KR258
					Based on OPI patent	EP 984796
					Based on OPI patent	WO 1998048861

Alerting Abstract WO A1

A medical implant embedded in the depth of a bone is coated with a polymeric material of hydrophilicity and osteo-conductivity.

USE - The implant is especially as an artificial tooth to be embedded in a dental root.

ADVANTAGE - The polymeric material absorbs moisture to swell up, bringing about an effect of dispersing external stress applied to the implant. The volumetric increase also brings the implant into close contact with the bone of the implantation site, thus improving the stability in an early stage of the implantation and to be more strongly integrated in a bone tissue with the lapse of time.

Title Terms /Index Terms/Additional Words: MEDICAL; IMPLANT; EMBED; DEPTH; BONE; DISPERSE; EXTERNAL; STRESS; COATING; POLYMERISE; MATERIAL; HYDROPHILIC; OSTEO; CONDUCTING

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
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A61B-017/56; A61L-027/00			Main		"Version 7"			
A61C-0013/00	A	I	L	B	20060101			
A61C-0013/08	A	I	L	B	20060101			
A61C-0008/00	A	I	L	B	20060101			
A61C-0008/00	A	I		R	20060101			
A61F-0002/00	A	N		R	20060101			
A61F-0002/28	A	I	L	B	20060101			
A61F-0002/30	A	I		R	20060101			
A61F-0002/46	A	N		R	20060101			

A61L-0027/00	A	I	F	B	20060101		
A61L-0027/34	A	I	L	B	20060101		
A61L-0027/34	A	I		R	20060101		
A61C-0008/00	C	I		R	20060101		
A61F-0002/00	C	N		R	20060101		
A61F-0002/30	C	I		R	20060101		
A61F-0002/46	C	N		R	20060101		
A61L-0027/00	C	I	L	B	20060101		
A61L-0027/00	C	I		R	20060101		

US Classification, Issued: 623023590, 433173000, 424423000

File Segment: CPI; EngPI

DWPI Class: A11; A28; A96; D22; P31; P32; P34

Manual Codes (CPI/A-N): A12-V02B; D09-C01D

13/5/34 (Item 34 from file: 350)

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0007458099 *Drawing available*

WPI Acc no: 1996-067860/199607

Related WPI Acc No: 1995-089734; 1996-086693; 1996-009722

XRPX Acc No: N1996-057104

Biopsy wound closure device - comprises biopsy punch mounted on lower end portion of syringe, with pre-cut sterile sponge located in interior of biopsy punch

Patent Assignee: NABAI H (NABA-I); RAHBARI H (RAHB-I)

Inventor: NABAI H; RAHBARI H

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5479936	A	19960102	US 199356399	A	19930504	199607	B
			US 1994358819	A	19941219		

Priority Applications (no., kind, date): US 199356399 A 19930504; US 1994358819 A 19941219

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes		
US 5479936	A	EN	5	13	Division of application	US 199356399	
					Division of patent	US 5388588	

Alerting Abstract US A

The closure device comprises a syringe, a detachable needle mounted on an end portion of the syringe, and a biopsy punch mounted on the syringe which is accessible when the needle is detached from the syringe. A circular sponge made from an absorbable foam material swells and fills up the defect left by biopsy and an applicator implants the sponge into the biopsy site. The sponge is pre-formed to a diameter which approximately corresponds to the diameter of the punch which is used for excising a biopsy specimen.

After a biopsy site has been anaesthetized with the syringe and needle, the needle is removed to expose the biopsy punch, the specimen is excised with the punch and the sponge is implanted into the space from which the specimen was taken. A slight pressure is applied to the sponge for approximately 30 to 60 seconds to stop any excess bleeding.

USE/ADVANTAGE - For performing a routine biopsy procedure without the use of sutures or butterfly bandages. Controls bleeding, repairs the biopsy site, reduces the likelihood of inducing excessive scarring and reduces the handling of tissue.

Title Terms /Index Terms/Additional Words: BIOPSY; WOUND; CLOSURE; DEVICE; COMPRISE; PUNCH; MOUNT; LOWER; END; PORTION; SYRINGE; PRE; CUT; STERILE; SPONGE; LOCATE; INTERIOR

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61B-005/00			Main		"Version 7"

US Classification, Issued: 128754000, 604015000

File Segment: EngPI; ;

DWPI Class: P31

13/5/36 (Item 36 from file: 350)

Fulltext available through: [Order File History](#)

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0006608642

WPI Acc no: 1993-143995/199317

Related WPI Acc No: 1994-316219

XRAM Acc no: C1993-064390

XRFX Acc No: N1993-109899

Augmenting of tissue in mammals for repairing hard and soft tissues - by injecting compsn. comprising biocompatible ceramic matrix pref. calcium phosphite mineral particles in fluid carrier

Patent Assignee: COHESION TECHNOLOGIES INC (COHE-N); COLLAGEN CORP (CLGE)

Inventor: CHU G; MCMULLIN H; WALLACE D G

Patent Family (15 patents, 20 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5204382	A	19930420	US 1992843646	A	19920228	199317	B
			US 1992920412	A	19920727		
WO 1993016657	A1	19930902	WO 1993US1378	A	19930216	199336	E
AU 199336196	A	19930913	AU 199336196	A	19930216	199403	E
EP 627899	A1	19941214	EP 1993905057	A	19930216	199503	E
			WO 1993US1378	A	19930216		
JP 7504106	W	19950511	JP 1993514927	A	19930216	199527	E
			WO 1993US1378	A	19930216		
AU 666712	B	19960222	AU 199336196	A	19930216	199620	E
EP 627899	A4	19961113	US 1992995485	A	19921223	199712	E
EP 1120439	A1	20010801	EP 1993905057	A	19930216	200144	E
			EP 2001109134	A	19930216		
EP 627899	B1	20011107	EP 1993905057	A	19930216	200169	E
			WO 1993US1378	A	19930216		
			EP 2001109134	A	19930216		
DE 69331096	E	20011213	DE 69331096	A	19930216	200205	E
			EP 1993905057	A	19930216		
			WO 1993US1378	A	19930216		
ES 2167330	T3	20020516	EP 1993905057	A	19930216	200239	E
EP 1120439	B1	20040616	EP 1993905057	A	19930216	200439	E
			EP 2001109134	A	19930216		
DE 69333556	E	20040722	DE 69333556	A	19930216	200450	E

			EP 2001109134	A	19930216		
CA 2128783	C	20041012	CA 2128783	A	19930216	200468	E
			WO 1993US1378	A	19930216		
DE 69333556	T2	20050630	DE 69333556	A	19930216	200543	E
			EP 2001109134	A	19930216		

Priority Applications (no., kind, date): US 1992843646 A 19920228; US 1992920412 A 19920727

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 5204382	A	EN	7	2	Division of application	US 1992843646
WO 1993016657	A1	EN	26	2		
National Designated States,Original	AU CA FI JP NO NZ					
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE					
AU 199336196	A	EN			Based on OPI patent	WO 1993016657
EP 627899	A1	EN			PCT Application	WO 1993US1378
					Based on OPI patent	WO 1993016657

Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
JP 7504106	W	JA			PCT Application	WO 1993US1378
					Based on OPI patent	WO 1993016657
AU 666712	B	EN			Previously issued patent	AU 9336196
					Based on OPI patent	WO 1993016657
EP 627899	A4	EN				
EP 1120439	A1	EN			Division of application	EP 1993905057
					Division of patent	EP 627899
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
EP 627899	B1	EN			PCT Application	WO 1993US1378
					Related to application	EP 2001109134
					Related to patent	EP 1120439
					Based on OPI patent	WO 1993016657
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
DE 69331096	E	DE			Application	EP 1993905057
					PCT Application	WO 1993US1378
					Based on OPI patent	EP 627899
					Based on OPI patent	WO 1993016657
ES 2167330	T3	ES			Application	EP 1993905057
					Based on OPI patent	EP 627899
EP 1120439	B1	EN			Division of application	EP 1993905057
					Division of patent	EP 627899
Regional Designated States,Original	AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
DE 69333556	E	DE			Application	EP 2001109134
					Based on OPI patent	EP 1120439

CA 2128783	C	EN			PCT Application	WO 1993US1378
					Based on OPI patent	WO 1993016657
DE 69333556	T2	DE			Application	EP 2001109134
					Based on OPI patent	EP 1120439

Alerting Abstract US A

Tissue in living mammals is augmented by the subcutaneous injection of a compsn. comprising a ceramic matrix (I) in an acceptable fluid carrier (II). (I) comprises particles of size 50-250 microns.

Pref. (I) is Ca phosphate mineral particles, esp. sintered hydroxyapatite and tri-Ca phosphate and (II) pref. comprises a biocompatible organic polymer (esp. a polyethylene glycol) which will dissipate from the injection site, leaving (I) particles. The compsn. pref. contains 0.75-0.05 g/ml of (I), and is pref. injected using a 20 gauge or fine needle. Opt., the compsn. may also comprise collagen (esp. with an aq. (II)) in wt. ratio (I):collagen = 1:19-1, a biocompatible fluid lubricant (esp. glycerol or succinylated collagen), 1 or more positively charged biologically active substances (esp. a tissue growth factor), or osteogenic factor or bone marrow (for bone tissue treatment).

ADVANTAGE - Method is esp. useful for the repair and augmentation of both soft and hard tissue, esp. for deep

tissue injection for sphincter and nasal repair etc. The inexpensive ceramic particles are biocompatible, allowing the implant to remain stable over extended periods of time. In addn., by using collagen as a co-matrix material, soft tissue implants with a wider range of consistencies may be achieved.

ADVANTAGE - In an example, sterile, non-pyrogenic hydroxyapatite having more rounded edges and of size 140-160 um was mixed with 'Zyderm II Collagen Implant' (RTM) (to 10 percent by wt. (I)). Samples (0.25 ml) were injected s.c into the suprascapular subcutis of Sprague-Dawley rats. After 28 days, the implants were reasonably biocompatible, with no granuloma formation evide

Title Terms /Index Terms/Additional Words: AUGMENT; TISSUE; MAMMAL; REPAIR; HARD; SOFT; INJECTION; COMPOSITION; COMPRISE; BIOCOMPATIBLE; CERAMIC; MATRIX; PREFER; CALCIUM; PHOSPHITE; MINERAL; PARTICLE; FLUID; CARRY

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61L-027/00; A61L-027/10; C08K-003/32			Main		"Version 7"			
A61F-0002/00	A	N		R	20060101			
A61K-0047/02	A	I	F	R	20060101			
A61L-0027/00	A	I	L	R	20060101			
A61L-0027/10	A	I		R	20060101			
A61L-0027/12	A	I		R	20060101			
A61L-0027/24	A	I		R	20060101			
A61L-0027/46	A	I		R	20060101			
C08K-0003/32	A	I		R	20060101			
A61F-0002/00	C	N		R	20060101			
A61K-0047/02	C	I	F	R	20060101			
A61L-0027/00	C	I		R	20060101			
C08K-0003/00	C	I		R	20060101			

US Classification, Issued: 523115000, 424484000, 424423000, 523113000

File Segment: CPI; EngPI

DWPI Class: A96; B07; D22; L02; P32; P34

Manual Codes (CPI/A-N): A12-V02; D09-C01; L02-G03A

13/5/38 (Item 38 from file: 350)

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0004922341

WPI Acc no: 1989-311242/198943

XRAM Acc no: C1989-137740

XRPX Acc No: N1989-237133

Aq. solns. or dispersions of collagen contg. hyaluronic acid - used in damaged tissue repair

Patent Assignee: KOKEN KK (KOKE); SHISEIDO CO LTD (SHIS)

Inventor: FUKUYAMA M; FURUSE M; MIYATA T; NISHIYAMA T; TOMINAGA N; TSUNENAGA M; TSUNGENAGA M; YAMASHITA T; YAMASITA T

Patent Family (3 patents, 9 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 338813	A	19891025	EP 1989303902	A	19890419	198943	B
JP 1265970	A	19891024	JP 198895858	A	19880419	198948	E
US 5137875	A	19920811	US 1989339765	A	19890418	199235	E

Priority Applications (no., kind, date): JP 198895858 A 19880419

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
EP 338813	A	EN	14	2		
Regional Designated States,Original		CH DE FR GB IT LI NL				
US 5137875	A	EN	11	2		

Alerting Abstract EP A

Novel aq. solns. or aq. dispersions of collagen which contain hyaluronic acid are claimed, the compsns. having a pH of 6.5-8.0 and an osmolality of 250-320 mOsm/kg H₂O.

Pref. compsns. contain 0.1-10 wt.% hyaluronic and also 0.1-10 wt.% of collagen.

USE/ADVANTAGE - The compsns. are repair agents for damaged tissue (claimed). The compsns. can be injected into damaged human or animal tissue; they show reduced antigenicity.

Title Terms /Index Terms/Additional Words: AQUEOUS; SOLUTION; DISPERSE; COLLAGEN; CONTAIN; HYALURONIC; ACID; DAMAGE; TISSUE; REPAIR

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date			
A61F-0002/00	A	N		R	20060101			
A61L-0027/00	A	I	F	R	20060101			
A61L-0027/20	A	I		R	20060101			
A61L-0027/24	A	I		R	20060101			

A61L-0027/50	A	I		R	20060101		
C08L-0005/08	A	I		R	20060101		
C08L-0089/06	A	I		R	20060101		
A61F-0002/00	C	N		R	20060101		
A61L-0027/00	C	I		R	20060101		
C08L-0005/00	C	I		R	20060101		
C08L-0089/00	C	I		R	20060101		

US Classification, Issued: 514021000, 530356000

File Segment: CPI; EngPI

DWPI Class: A11; A96; D22; F01; P34

Manual Codes (CPI/A-N): A03-A00A; A03-C01; A12-V02; D09-C01; F01-D10; F04-E04

13/5/39 (Item 39 from file: 350)

Fulltext available through: [Order File History](#)

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0003676215

WPI Acc no: 1986-118804/198618

XRAM Acc no: C1986-050633

XRPX Acc No: N1986-087570

Crosslinked atelopeptide collagen - used as an injectable aq. suspension for augmenting soft tissue

Patent Assignee: COLLAGEN CORP (CLGE)

Inventor: MCPHERSON J; SMESTAD T L; WALLACE D G

Patent Family (2 patents, 2 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 4582640	A	19860415	US 1982355879	A	19820308	198618	B
			US 1982375665	A	19820506		
			US 1983561058	A	19831213		
			US 1984663478	A	19841022		
CA 1255589	A	19890613	CA 500548	A	19860128	198928	NCE

Priority Applications (no., kind, date): US 1984663478 A 19841022

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 4582640	A	EN	7	0	
CA 1255589	A	EN			

Alerting Abstract US A

A novel crosslinked atelopeptide collagen (a) is free of residual crosslinking agent, (b) has greater than 15 free lysine residues per 1000 amino acid residue and (c) is composed of fibrous particles which when in suspension in physiological saline at a concn. of 35 mg/ml exhibit a shear viscosity whose log varies linearly with the log of the shear rate is approximated by the formula

$\log \eta$ is less than or equal to $-0.96 \log \gamma + 2.3$

(γ =shear rate is sec.⁻¹; log γ is in the range -6 to +2; η is the viscosity of the suspension in Pascal-sec).

USE/ADVANTAGE - The collagen implant material may be injected intradermally or subcutaneously to augment soft tissue, to repair or correct congenital anomalies, acquired defects or cosmetic defects. The particle size of the crosslinked collagen is less and, when a screened starting material is used, more uniform than that of US4424208. The shear viscosity of similar suspensions of the crosslinked collagen of US4424208 is 2-2.5 times greater.

Title Terms /Index Terms/Additional Words: CROSSLINK; ATELO; PEPTIDE; COLLAGEN; INJECTION; AQUEOUS; SUSPENSION; AUGMENT; SOFT; TISSUE

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61K-037/12; A61L-015/04; C07G-007/00; C08L-089/06			Secondary		"Version 7"

US Classification, Issued: 530356000, 128DIG008, 514773000, 514801000

File Segment: CPI; EngPI

DWPI Class: A11; A96; P34

Manual Codes (CPI/A-N): A03-C01; A12-V02

13/5/40 (Item 40 from file: 350)

Fulltext available through: [Order File History](#)

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0002686187

WPI Acc no: 1983-718411/198330

XRAM Acc no: C1983-069620

Injectable implant material for soft tissues - comprises particulate and fibrous collagen for improved volume stability

Patent Assignee: COLLAGEN CORP (CLGE)

Inventor: WADE S B; WALLACE D G

Patent Family (7 patents, 13 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 83868	A	19830720	EP 1982306910	A	19821223	198330	B
JP 58121958	A	19830720	JP 1982212109	A	19821204	198335	E
US 4424208	A	19840103	US 1982338661	A	19820111	198404	E
JP 1985054288	B	19851129				198601	E
CA 1199580	A	19860121				198608	E
EP 83868	B	19860430	EP 1982306910	A	19821223	198618	E
DE 3270910	G	19860605				198624	E

Priority Applications (no., kind, date): US 1982338661 A 19820111

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
EP 83868	A	EN	14		
Regional Designated States,Original	AT BE CH DE FR GB IT LI LU NL SE				
CA 1199580	A	EN			
EP 83868	B	EN			
Regional Designated States,Original	CH DE FR GB IT LI				

Alerting Abstract EP A

Injectable implant material for soft tissue augmentation comprises a dispersion of collagen in an aq. carrier. The collagen is a mixt. of particulate crosslinked atelopeptide collagen and reconstituted fibrous atelopeptide collagen. The material has improved volume stability when injected intradermally to augment soft tissue, and to repair or correct congenital abnormalities, acquired defects or cosmetic defects. Such abnormalities and defects are treated in the usual way, but the shrinkage experienced around the treatment site with known collagen implants is reduced. The dispersion contains 15-80 mg/ml of the mixt.

Title Terms /Index Terms/Additional Words: INJECTION; IMPLANT; MATERIAL; SOFT; TISSUE; COMPRISE; PARTICLE; FIBRE; COLLAGEN; IMPROVE; VOLUME; STABILISED

Class Codes

International Patent Classification

IPC	Class Level	Scope	Position	Status	Version Date
A61F-002/00			Main		"Version 7"
A61K-037/02; A61K-037/12; A61L-027/00; A61M-001/03; C07C-103/52			Secondary		"Version 7"

US Classification, Issued: 514021000, 514801000, 530356000, 530842000

File Segment: CPI; EngPI

DWPI Class: D22; P32; P34

Manual Codes (CPI/A-N): D09-C01

17/K/19 (Item 19 from file: 5)

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Biosis Previews(R)

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11831329 Biosis No.: 199395133595

Small cylindrical ultrasound sources for induction of hyperthermia via body cavities or interstitial implants

Author: Hynynen K; Davis K L

Author Address: Arizona Cancer Cent., Dep. Radiation Oncol., Univ. Arizona Health Sci. Cent., Tucson, AZ 85724, USA**USA

Journal: International Journal of Hyperthermia 9 (2): p 263-274 1993

ISSN: 0265-6736


Document Type: Article

Record Type: Abstract

Language: English

Abstract: ...pattern with the spacing of 25 mm between the catheters, was able to heat the tissue volume inside of the implant. The results showed that these small ultrasound applicators may offer significant improvement over existing techniques by increasing the penetration depth and the control over the power deposition pattern.

17/K/73 (Item 15 from file: 155)

Fulltext available through:  [STIC Full Text Retrieval Options](#)

MEDLINE(R)

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08508920 PMID: 2353782

Enhancement of expansion of guinea pig skin by local delivery of an anticontractile agent using a new bilumen expander.

Matt B H; Squier C A; Kelly K M; Bardach J

Department of Otolaryngology--Head and Neck Surgery, University of Iowa, Iowa City.

Annals of plastic surgery (UNITED STATES) Apr 1990 , 24 (4) p335-41 , ISSN: 0148-7043--Print

Journal Code: 7805336

Contract/Grant No.: BR56-2-SO7-RR-5313; RR; NCRR

Publishing Model Print

Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.

Languages: ENGLISH

Main Citation Owner: NLM

Record type: MEDLINE; Completed

...an animal model than in controls without these agents. We describe an improved method of delivery involving a perforated concentric envelope enclosing a tissue expander (type 2) in place of the single circumferential perforated catheter (type 1) used previously by us. Eleven guinea pigs received a type 1 expander and ten received a type 2 expander. The anticontractile agent theophylline was delivered in saline around each expander, and all the expanders from both groups were inflated to a similar pressure every three days for twelve days... ...conclude that the concentric device offers further improvement, probably as a result of more uniform distribution of the agent in the tissue around the expander.